



U.S. Department
of Transportation
Federal Aviation
Administration

PROPOSED TECHNICAL STANDARD ORDER

Attached is proposed Technical Standard Order (TSO), C85a, Survivor Locator Lights for your review and comment.

Comments submitted must be received on or before November 30, 1995, and must identify the TSO file number shown in the Federal Register notice dated September 21, 1995, Vol. 60, Page 49039. Send all comments on the proposed TSO to:

Federal Aviation Administration
Technical Programs and Continued Airworthiness
Branch, AIR-120
Aircraft Engineering Division
Aircraft Certification Service - File No. TSO-C85a
800 Independence Avenue, SW.
Washington, DC 20591

Distribution:

Proposed Technical Standard Order **(TSO)**

Subject: ~~TSO-C85a~~, Survivor Locator Lights

a. Applicability.

(1) Minimum Performance Standards. This technical standard order **(TSO)** prescribes the minimum performance standard that survivor locator lights must meet in order to be identified with the applicable **TSO** marking. New models of survivor locator lights that are to be so identified and that are manufactured on or after the date of this **TSO** must meet the standards set forth in the Society of Automotive Engineers, Inc. **(SAE)**, Aerospace Standard (AS) Document No. ~~4492~~, "Survivor Locator Lights," dated January 1995..

(2) Environmental Standards. **SAE AS 4492** incorporates as reference the following environmental standards and test methods, for which a more recent version of these standards and tests may be ~~substituted~~, if approved by the manager of the aircraft certification office **(ACO)**, Federal Aviation Administration (FAA), having geographical purview over the manufacturer's facilities.

(1) The environmental test procedures specified in Radio Technical Commission for Aeronautics, Inc. **(RTCA)** Documents No. **RTCA/DO-160C**, "Environmental Conditions and Test Procedures for Airborne Equipment," dated December 1989..

b. Marking. Each survivor locator light must be marked in accordance with **14 CFR 21.607(d)**..

c. Data Requirements.

(1) In addition to the information specified in **14 CFR 21.605**, the manufacturer must furnish the Manager, Aircraft Certification Office **(ACO)**, Federal Aviation Administration, having geographical purview of the manufacturer's facilities, one copy each of the following technical data:

(i) A complete description of the survivor locator light, including detail drawings, material identification and specification.

(ii) Operating instructions and limitations.

(iii) Installation instructions and limitations, including stowage area temperatures.

(iv) Packaging instructions and limitations.

(v) Maintenance instructions, including information regarding inspection, repair, stowage of materials, recommended inspection intervals and service life.

(vi) Manufacturer's **TSO** qualification test report with an environmental qualification form as described in ~~RTCA/DO-160C~~.

(vii) The quality control inspection and functional test specification to be used to ensure each production article complies with this **TSO**, as required by ~~14 CFR 21.605(a)(3)~~ and ~~14 CFR 21.143(a)(3)~~.

(2) In addition, the manufacturer must furnish to the user one copy of the data and information necessary for continued airworthiness specified in paragraphs (c) (1) (ii) through (c)(1)(v) of this **TSO** and a note with the following statement:

"The conditions and test required for **TSO** approval of this article are minimum performance standards. It is the responsibility of those desiring to install the article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the **TSO** standards. The article may be installed only if further evaluation by the applicant (user/installer) documents an acceptable installation and is approved by the Administrator.**

d. Availability of Reference Documents.

(1) Copies of **SAE AS 4492** may be purchased from the Society of Automotive Engineers Inc., Department ~~331~~, ~~400~~ Commonwealth Drive, Warrendale, Pennsylvania ~~15096~~.

(2) Copies of RTCA Documents No. DO-160C and DO-178B may be purchased from the RTCA, Inc., 1140 Connecticut Avenue, NW, Suite 1020, Washington, DC 20036-4001.

(3) Federal Aviation Regulations, Part 21, Subpart 0 and Part 25, Subpart D, may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402-9325.

(4) Advisory Circular 20-110, "Index of Aviation Technical Standard Orders," may be obtained from the U.S. Department of Transportation, General Services Section, M-443.22, Washington, DC 20590.

John K. McGrath
Manager, Aircraft Engineering Division
Aircraft Certification Service